BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Modified Estimate for Improvements to Roads and Drains at Vinayakanagara in Ward No. 11, Vidyaranyapura Sub Division.

								Estimate Cost Rs.	3958080.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 138 / Item No. 19.1 / PWD SR 2014-15**	Cum							
	Lef side 2nd Cross		1	30.00	$\frac{4.10+3.95}{2}$	0.20	24.15		
			1	30.00	$\frac{3.95+9.85}{2}$	0.20	41.40		
			1	4.00	$\frac{3.85+3.60}{2}$	0.20	2.98		
	Cross Road Near Temple		1	14.00	$\frac{4.00+5.00}{2}$	0.15	9.45		
			1	30.00	$\frac{2.80+3.10}{2}$	0.20	17.70		
			1	30.00	$\frac{3.10+3.80}{2}$	0.18	18.63		
			1	6.00	$\frac{3.80+2.80}{2}$	0.20	3.96		
	Cross road Behind Temple		1	22.00	$\frac{2.80+3.00}{2}$	0.20	12.76		
			1	30.00	$\frac{3.00+2.20}{2}$	0.22	17.16		
			1	5.00	$\frac{2.20+1.50}{2}$	0.20	1.85		
	Cross Road Beside SWD		1	30.00	$\frac{2.65+2.00}{2}$	0.20	13.95		
			1	22.00	$\frac{2.00+4.60}{2}$	0.25	18.15		
			1	16.00	$\frac{4.60+4.60}{2}$	0.20	14.72		
	Cross Road Fencing		1	30.00	$\frac{2.50+2.90}{2}$	0.20	16.20		
			1	9.00	$\frac{2.90+2.90}{2}$	0.23	6.00		
	bekary Road		1	9.00	$\frac{8.00+3.70}{2}$	0.20	10.53		
			1	25.00	$\frac{5.40+5.40}{2}$	0.20	27.00		
			1	30.00	$\frac{3.00+3.90}{2}$	0.25	25.88		
	Singapura Gutte-2		1	35.00	$\frac{5.50+5.50}{2}$	0.20	38.50		
			1	40.00	$\frac{4.00+3.80}{2}$	0.20	31.20		
			1	40.00	$\frac{3.00+3.10}{2}$	0.20	24.40		
	CDS								

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	6th Cross		1	6.70	2.00	1.00	13.40		
	fron of Bekary		1	8.00	2.00	1.00	16.00		
	Singapura Veeranjaneya Temple L/s		1	7.60	2.00	1.00	15.20		
	Singapura Veeranjaneya Temple R/s		1	5.70	2.00	1.00	11.40		
	Singapura Gutte		1	5.20	2.00	1.00	10.40		
	Varadarajanagara		1	7.00	2.00	1.00	14.00		
	For drain								
	Cross Road Near Temple		2	80.00	0.75	0.70	84.00		
	Temple Back Side		1	55.00	0.75	0.70	28.88		
	bekary Road side drain		2	34.00	0.75	0.70	35.70		
	Singapura Gutte-2		1	35.00	0.75	0.70	18.38		
	Total Qty						**623.92**		
	Qty Upto 125%						**447.19**	75.60	**33807.00**
	Qty Above 125 %						**176.73**	83.16	**14697.00**
	2015-16 PWD SR Basic Rate	77.00							
	Area Weightage @ 8%	6.16							
	Total	**83.16**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2014-15**	Cum							
	Lef side 2nd Cross		1	30.00	$\frac{4.10+3.95}{2}$	0.15	18.11		
			1	30.00	$\frac{3.95+9.85}{2}$	0.15	31.05		
			1	4.00	$\frac{3.85+3.60}{2}$	0.15	2.24		
	Cross Road Near Temple		1	14.00	$\frac{4.00+5.00}{2}$	0.15	9.45		
			1	30.00	$\frac{2.80+3.10}{2}$	0.15	13.28		
			1	30.00	$\frac{3.10+3.80}{2}$	0.15	15.53		
			1	6.00	$\frac{3.80+2.80}{2}$	0.15	2.97		
	Cross road Behind Temple		1	22.00	$\frac{2.80+3.00}{2}$	0.15	9.57		
			1	30.00	$\frac{3.00+2.20}{2}$	0.15	11.70		
			1	5.00	$\frac{2.20+1.50}{2}$	0.15	1.39		
	Cross Road Beside SWD		1	30.00	$\frac{2.65+2.00}{2}$	0.15	10.46		
			1	22.00	$\frac{2.00+4.60}{2}$	0.15	10.89		
			1	16.00	$\frac{4.60+4.60}{2}$	0.15	11.04		
	Cross Road Fencing		1	30.00	$\frac{2.50+2.90}{2}$	0.15	12.15		
			1	9.00	$\frac{2.90+2.90}{2}$	0.15	3.92		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	ekary Road		1	9.00	8.00+3.70 / 2	0.15	7.90		
			1	25.00	5.40+5.40 / 2	0.15	20.25		
			1	30.00	3.00+3.90 / 2	0.15	15.53		
	Singapura Gutte-2		1	35.00	5.50+5.50 / 2	0.15	28.88		
			1	40.00	4.00+3.80 / 2	0.15	23.40		
			1	40.00	3.00+3.10 / 2	0.15	18.30		
	CDS								
	6th Cross		1	6.70	2.00	0.15	2.01		
	Infron of Bekary		1	8.00	2.00	0.15	2.40		
	Singapura Veeranjaneya Temple L/s		1	7.60	2.00	0.15	2.28		
	Singapura Veeranjaneya Temple R/s		1	5.70	2.00	0.15	1.71		
	Singapura Gutte		1	5.20	2.00	0.15	1.56		
	Varadarajanagara		1	7.00	2.00	0.15	2.10		
	For drain								
a	Cross Road Near Temple		2	80.00	0.75	0.15	18.00		
b	Temple Back Side		1	55.00	0.75	0.15	6.19		
c	Bekary Road side drain		2	34.00	0.75	0.15	7.65	TP	
							321.88	4847.04	**1560153.00**
3	Providing and laying cement concrete using 20mm and down size granite jelly of **ready mixed concrete (RMC)for R.C.C works** laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2014-15**	Cum							
	Lef side 2nd Cross		1	30.00	4.10+3.95 / 2	0.125	15.09		
			1	30.00	3.95+9.85 / 2	0.125	25.88		
			1	4.00	3.85+3.60 / 2	0.125	1.86		
	Cross Road Near Temple		1	14.00	4.00+5.00 / 2	0.125	7.88		
			1	30.00	2.80+3.10 / 2	0.125	11.06		
			1	30.00	3.10+3.80 / 2	0.125	12.94		
			1	6.00	3.80+2.80 / 2	0.125	2.48		
	Cross road Behind Temple		1	22.00	2.80+3.00 / 2	0.125	7.98		
			1	30.00	3.00+2.20 / 2	0.125	9.75		
			1	5.00	2.20+1.50 / 2	0.125	1.16		
	Cross Road Beside SWD		1	30.00	2.65+2.00 / 2	0.125	8.72		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1	22.00	2.00+4.60 / 2	0.125	9.08		
			1	16.00	4.60+4.60 / 2	0.125	9.20		
	Cross Road Fencing		1	30.00	2.50+2.90 / 2	0.125	10.13		
			1	9.00	2.90+2.90 / 2	0.125	3.2625		
	bekary Road		1	9.00	8.00+3.70 / 2	0.125	6.58		
			1	25.00	5.40+5.40 / 2	0.125	16.88		
			1	30.00	3.00+3.90 / 2	0.125	12.94		
	Singapura Gutte-2		1	35.00	5.50+5.50 / 2	0.125	24.06		
			1	40.00	4.00+3.80 / 2	0.125	19.50		
			1	40.00	3.00+3.10 / 2	0.125	15.25	TP	
							231.65	5847.12	**1354485.00**
4	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **171 / Item No. 22.7 / PWD SR 2014-15**	Sqm							
	Lef side 2nd Cross		1	30.00	4.10+3.95 / 2		120.75		
			1	30.00	3.95+9.85 / 2		207.00		
			1	4.00	3.85+3.60 / 2		14.90		
	Cross Road Near Temple		1	14.00	4.00+5.00 / 2		63.00		
			1	30.00	2.80+3.10 / 2		88.50		
			1	30.00	3.10+3.80 / 2		103.50		
			1	6.00	3.80+2.80 / 2		19.80		
	Cross road Behind Temple		1	22.00	2.80+3.00 / 2		63.80		
			1	30.00	3.00+2.20 / 2		78.00		
			1	5.00	2.20+1.50 / 2		9.25		
	Cross Road Beside SWD		1	30.00	2.65+2.00 / 2		69.75		
			1	22.00	2.00+4.60 / 2		72.60		
			1	16.00	4.60+4.60 / 2		73.60		
	Cross Road Fencing		1	30.00	2.50+2.90 / 2		81.00		
			1	9.00	2.90+2.90 / 2		26.10		
	bekary Road		1	9.00	8.00+3.70 / 2		52.65		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1	25.00	5.40+5.40 / 2		135.00		
			1	30.00	3.00+3.90 / 2		103.50		
	Singapura Gutte-2		1	35.00	5.50+5.50 / 2		192.50		
			1	40.00	4.00+3.80 / 2		156.00		
			1	40.00	3.00+3.10 / 2		122.00	TP	
							1853.20	97.20	**180131.00**
5	Providing **groove cutting** for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator and HOM of machinery including cost of blade coolant etc including cleaning of groove and providing sand and hot bitumne fillars, and filler metal etc., indluding cost of converyance of all materials, labours, lead and lift charges and all other incidental charges as per drawing and as per specification **Concrete Pavement Page No. 172 / Item No. 22.8.1 / PWD SR 2014-15**	Rmt							
	Lef side 2nd Cross		6	4.00			24.00		
	Cross Road Near Temple		8	5.00			40.00		
	Cross road Behind Temple		6	2.50			15.00		
	Cross Road Beside SWD		6	3.50			21.00		
	Cross Road Fencing		4	2.70			10.80		
	bekary Road		6	4.00			24.00		
			2	5.50			11.00		
			3	4.00			12.00		
			3	3.00			9.00	TP	
							166.80	124.20	**20717.00**
6	KSRB 5.4-3: Providing and constructing granite / trap / basalt size stone masonry in **superstructure with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 23 / Item No. 5.12 / PWD SR 2014-15**	Cum							
	6th Cross		2	6.70	0.60	0.80	6.43		
	Infron of Bekary		2	8.00	0.60	0.80	7.68		
	Singapura Veeranjaneya Temple L/s		2	7.60	0.60	0.80	7.30		
	Singapura Veeranjaneya Temple R/s		2	5.70	0.60	0.80	5.47		
	Singapura Gutte		2	5.20	0.60	0.80	4.99		
	Varadarajanagara		2	7.00	0.60	0.80	6.72	TP	
							38.59	4773.60	**184223.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	KSRB-4-1.1 : Providing and laying in position plain cement concrete of **mix 1:2:4 with OPC cement @ 240 kgs with 40mm** and down size graded granite metal coarse aggregares @ 0.878 cum and fine aggregates @ 0.459 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, **No. 12 / Item No. 4.1 / PWD SR 2014-15**	Cum							
	CD Coping								
	6th Cross		1	6.70	1.80	0.075	0.90		
	Infron of Bekary		1	8.00	1.80	0.075	1.08		
	Singapura Veeranjaneya Temple L/s		1	7.60	1.80	0.075	1.03		
	Singapura Veeranjaneya Temple R/s		1	5.70	1.80	0.075	0.77		
	Singapura Gutte		1	5.20	1.80	0.075	0.70		
	Varadarajanagara		1	7.00	1.80	0.075	0.95		
	Drain Coping								
	Cross Road Near Temple		2	80.00	0.7	0.075	8.40		
	Temple Back Side		1	55.00	0.7	0.075	2.89		
	bekary Road side drain		2	34.00	0.2	0.075	1.02		
	Singapura Gutte		1	35.00	0.7	0.075	1.84		
	Total Qty						**19.57**	TP	
	Qty Upto 125%						**7.50**	5241.24	**39309.00**
	Qty Above 125 %						**12.07**	5490.72	**66284.00**
	2015-16 PWD SR Basic Rate	5084.00							
	Area Weightage @ 8%	406.72							
	Total	**5490.72**							
8	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **Page No. 13 / Item No. 4.11 / PWD SR 2014-15**	Cum							
	6th Cross		1	6.70	1.50	0.23	2.31		
	Infron of Bekary		1	8.00	1.50	0.23	2.76		
	Singapura Veeranjaneya Temple L/s		1	7.60	1.50	0.23	2.62		
	Singapura Veeranjaneya Temple R/s		1	5.70	1.50	0.23	1.97		
	Singapura Gutte		1	5.20	1.50	0.23	1.79		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Varadarajanagara		1	7.00	1.50	0.23	2.42	TP	
							13.87	6065.28	**84119.00**
9	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2014-15**	Tonne							
			0.08	13.87			1.11	TP	
							1.11	78351.84	**86933.00**
10	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and **removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm** including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.18 / PWD SR 2014-15**	Sqm							
	For Cd's								
	6th Cross		1	6.70	0.60		4.02		
	Infron of Bekary		1	8.00	0.60		4.80		
	Singapura Veeranjaneya Temple L/s		1	7.60	0.60		4.56		
	Singapura Veeranjaneya Temple R/s		1	5.70	0.60		3.42		
	Singapura Gutte		1	5.20	0.60		3.12		
	Varadarajanagara		1	7.00	0.60		4.20		
	For sides								
	6th Cross		1	16.40		0.23	3.77		
	Infron of Bekary		1	19.00		0.23	4.37		
	Singapura Veeranjaneya Temple L/s		1	18.20		0.23	4.19		
	Singapura Veeranjaneya Temple R/s		1	14.40		0.23	3.31		
	Singapura Gutte		1	13.40		0.23	3.08		
	Varadarajanagara		1	17.00		0.23	3.91		
	for road -1		2	85.00		0.25	42.50		
	for road -2		1	50.00		0.25	12.50		
	for road -3		2	40.00		0.25	20.00		
	for road -4		2	95.00		0.25	47.50		
	for road -5		2	40.00		0.25	20.00		
			2	35.00		0.25	17.50		
	Total Qty						**206.75**	TP	
	Qty Upto 125%						**161.88**	314.28	**50874.00**
	Qty Above 125 %						**44.88**	329.40	**14782.00**
	2015-16 PWD SR Basic Rate	305.00							
	Area Weightage @ 8%	24.40							
	Total	**329.40**							
11	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**490.00**	TP	

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							402.48	72.71	**29264.00**
	WDSR 2015-16						**87.53**	78.97	**6912.00**
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	68.00							
		73.12							
	Area Weightage @ 8%	5.85							
	Total	**78.97**							
	EIRL								
12	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **Page No. 25 / Item No. 5.27 / PWD SR 2015-16**	Sqm							
	Cross Road Near Temple		4	80.00		0.40	128.00		
	Temple Back Side		2	55.00		0.40	44.00		
	bekary Road side drain		4	34.00		0.20	27.20		
	sngapura gutte		2	35.00		0.40	28.00		
							227.20	1018.44	**231390.00**
	2015-16 PWD SR Basic Rate	943.00							
	Area Weightage @ 8%	75.44							
	Total	**1018.44**							
							Total		**3958080.00**
Rupees Thirty Nine Lakh(s) Fifty Eight Thousand Eighty Only									

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15, 2015-16 +/- Tender Premium.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 19

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
24/7/16